

# The Gazette of India



## EXTRAORDINARY

### PART II—Section 3

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#### MINISTRY OF NATURAL RESOURCES AND SCIENTIFIC RESEARCH NOTIFICATION

*New Delhi, the 15th March 1955*

**S.R.O. 608.**—In exercise of the powers conferred by section 6 of the Mines and Minerals (Regulation and Development) Act, 1948 (LIII of 1948), the Central Government is pleased to make the following rules for the conservation and development of minerals, namely:

#### THE MINERALS CONSERVATION AND DEVELOPMENT RULES, 1955

##### CHAPTER I

##### PRELIMINARY

1. (a) The rules may be called the Minerals Conservation and Development Rules, 1955.

(b) They shall come into force on the first day of April, 1955.

2. In these rules, unless the context otherwise requires—

(a) “the Act” means the Mines and Minerals (Regulation and Development) Act, 1948 (LIII of 1948);

(b) “agent”, when used in relation to a mine, means any person, whether appointed as such or not, who acts as the representative of the owner in respect of the management of the mine or any part thereof;

(c) “boring” or “drilling” means the penetration of alluvial material, rocks or formations by holes of relatively small diameter for studying the structure of mineral bearing formation and for drawing samples therefrom;

(d) “development” means the driving of an opening to or in approved ore body or seam, or removing over-burden of unproductive or waste materials as preparatory, to mining or stoping;

(e) “Director” means the Director of the Indian Bureau of Mines;

(f) “Form” means a form set out in the Schedule to these rules;

(g) “manager”, when used in relation to a mine, means any person appointed by the owner or agent for the purposes of controlling, managing and directing the operations of the mine or of any part thereof, and includes the owner or the agent if he appoints himself to be such manager under section 17 of the Mines Act, 1952 (XXXV of 1952);

(h) “mining” means the process of extracting ores or minerals from mineral deposits by opencast or underground methods or boring; and includes ore-dressing, concentration, beneficiation and processing operations;

- (i) "owner", when used in relation to a mine, means any person who is the immediate proprietor or lessee or occupier of the mine or of any part thereof and in the case of a mine the business whereof is being carried by a liquidator or receiver, such liquidator or receiver, but does not include a person who merely receives a royalty, rent or find from the mine, or is merely the proprietor of the mine subject to any lease, grant or license for the working thereof, or is merely the owner of the soil and not interested in the minerals of the mine but any contractor for the working of a mine or any part thereof shall be subject to these rules in like manner as if he were an owner, but not so as to exempt the owner from any liability;
- (j) "prospecting" means operations to gain knowledge of the shape, size, extent and quality of a mineral deposits;
- (k) "section" means a section of the Act;
- (l) "shaft" means a vertical or inclined opening giving access to and serving various levels below ground of a mine; and
- (m) "stope" means any underground excavation, other than development working made for the purpose of winning ores or minerals.

3. Nothing in these rules shall apply to:

- (i) petroleum and natural gas,
- (ii) coal,
- (iii) minor minerals, and
- (iv) any minerals declared as prescribed substances for the purposes of the Atomic Energy Act, 1948 (XXIX of 1948).

*Explanation.*—The expression "minor mineral" has the meaning assigned to it in the Mineral Concession Rules, 1949.

## CHAPTER II

### NOTICES AND RETURNS

4. Every holder of a prospecting licence shall send to the Director a notice in Form A of the commencement of prospecting operations within thirty days from the date of such commencement.

5. Every holder of a prospecting license shall submit to the Director returns in triplicate in Form B, so as to reach him not later than the 31st day of January of every year, following the year to which the returns relate:

Provided that where prospecting operations are abandoned, such returns shall be submitted to the Director in the Form aforesaid within a period of thirty days from the date of such abandonment.

6. Every owner, agent or manager of a mine shall send to the Director a notice in Form C of the opening of the mine within thirty days from the date of the commencement of mining operation in such mine.

7. Every owner, agent or manager of a mine shall send a notice to the Director of any change in the name of the mine within thirty days of such change.

8. Every holder of a prospecting licence or a mining lease who transfers or assigns his license or lease or any right, title or interest thereunder to another person shall, within thirty days of the date of such transfer or assignment send a notice in Form D to the Director.

9. Every owner, agent or manager of a mine who intends to abandon the mine shall send to the Director a notice at least thirty days prior to the intended date of such abandonment:

Provided that when such abandonment takes place on the occurrence of a natural phenomenon beyond the control of such owner, agent or manager, the notice required under this rule shall be submitted to the Director within a period of fifteen days of such occurrence.

10. Every owner, agent or manager of a mine, when the mine is abandoned or work thereon is discontinued for more than sixty days shall send to the Director a notice in triplicate in Form E, so as to reach him within fifteen days from the date of such abandonment, or ninety days from the date of such discontinuance.

11. Where any mine or part of a mine is abandoned, or work thereon is discontinued for a period exceeding one year, the owner, agent or manager of the mine shall, within three months of the date of such abandonment or within fifteen months of the date of such discontinuance of the mining operations, send to the Director one copy each of the plans and sections setting forth as accurately as possible the work done on the mine upto the time of such abandonment or discontinuance, as the case may be:

Provided that if a change of ownership takes place at any time before the expiry of three months after the date of such abandonment or before the expiry of fifteen months after the date of such discontinuance, one copy each of the said plans and sections shall be submitted to the Director by the owner, agent or manager showing as accurately as possible the work done on the mine at the time of abandonment or discontinuance, as the case may be, within thirty days of the date of such change of ownership.

12. Every owner, agent or manager of a mine shall, when a mine is reopened after abandonment or discontinuance, send to the Director a notice in triplicate in Form F within thirty days from the date of such re-opening.

13. Every owner, agent or manager of a mine shall send to the Director a notice in Form G intimating his intention to commence the stoping of any vein, load, reef or mineral deposit, so as to reach the Director at least thirty days prior to the date of the commencement of such operations.

14. Every owner, agent or manager of a mine shall submit to the Director the undermentioned returns in triplicate in the Forms and within the time specified in respect of every such return in the following clauses namely:—

(a) an annual return in Form 'H' in respect of all minerals, other than manganese, chromitic, mica, iron ore, ilmenite, copper ore, lead zinc ores, gold and precious metals, precious and semi-precious stones, not later than the first day of March of every year following the year to which the return relates;

(b) a quarterly return:—

(i) in Form I in respect of manganese ore,

(ii) in Form J in respect of chromite,

(iii) in Form K in respect of mica,

(iv) in Form L in respect of iron,

(v) in Form M in respect of ilmenite,

(vi) in Form N in respect of copper ore,

(vii) in Form O in respect of lead and zinc ores,

(viii) in Form P in respect of gold and precious metals,

(ix) in Form Q in respect of precious and semi-precious stones, and

within thirty days of the expiry of every quarter to which the return relates.

15. Every owner of a mine shall, when any appointment is made of an agent or manager, or when any change occurs in the address of such agent or manager, send a notice of such appointment or change of address, and the date thereof, to the Director within thirty days of the date of such appointment or change of address.

### CHAPTER III

#### SINKING SHAFTS AND NEW BORE-HOLES

16. Every owner, agent or manager of a mine shall send a notice in triplicate in Form R to the Director, within fifteen days after the commencement of the following mining operations, that is to say when it is intended,—

(a) to sink a trial shaft or bore-hole to a depth exceeding 50 feet from the surface; or

(b) to extend an existing shaft or bore-hole to a depth exceeding 50 feet; or

(c) to sink a new shaft or bore-hole commencing from underground working.

17. Every owner, agent or manager of a mine shall keep a record in Form S of all shafts or bore-holes exceeding 50 feet in depth and shall retain all records and samples of the strata passed through for a period of not less than six months after the completion of the work or abandonment thereof.

18. Every owner, agent or manager of a mine shall preserve intact all cores and specimens of different types of rocks and minerals obtained during drilling or sinking operations, and arrange for them to be laid out in serial order with identification marks, showing the progressive depths at which they were obtained. Such specimens shall not be broken except for the purpose of analysis, in which case, representative samples of the specimens so broken will be preserved.

19. When the ownership of a prospecting license or a mining lease is transferred at any time during the period when the operation of sinking a shaft or bore-hole is in progress or within six months after the completion of sinking, drilling or boring operations, all records, specimens, cores and fragment of rocks, obtained during sinking, shall be transferred by the transferor to the transferee and thereupon it shall be the duty of the transferee, his agent or manager to comply with all the requirements of rules 16, 17 and 18.

20. For the purpose of carrying out of prospecting and mining operations in accordance with the approved practice, every holder of a prospecting license or a mining lease shall employ a whole-time or a part-time geologist or mining engineers possessing such qualifications as the Central Government may, by general or a special order, specify.

#### CHAPTER IV

##### ISSUING DIRECTIONS AND EXAMINATION OF MINERALS

21. Every owner, agent or manager of a mine shall comply with such directions, being directions for the purposes of providing for the conservation and systematic development of minerals, as the Director may, from time to time, by general or special order make with the prior approval of the Central Government.

22. Every owner, agent or manager of a mine shall, on a requisition made in this behalf by the Director, furnish to him within such time as may be specified in the requisition, a statement showing the broad features of the scheme of development of the mine, together with the requisite plan and sections.

23. The Director, or any person authorised by him in this behalf, may examine any mineral at any mine or new bore-holes from which such minerals are extracted and draw samples therefrom for the purpose of these rules.

24. Where an order has been passed by the Central Government prohibiting the grant of a prospecting licence or a mining lease in respect of any mineral or any area under rules made under section 5, the Central Government may, by order, determine the manner in which, and the agency by which, such mineral or area, as the case may be, shall be developed and worked, and thereupon the State Government shall act accordingly.

#### CHAPTER V

##### POWERS OF REVISION

25. (1) Any person aggrieved by any direction made by the Director under rule 21 may, within thirty days of the date of issue of such direction, make an application to the Central Government for revision of such direction and the Central Government on receipt of every such application shall refer it for a report to a Board consisting of not more than two officials and an equal number of persons representing the owners, agents or managers of mines and one chairman, all to be appointed by the Central Government. Provided that the Central Government may entertain an application for revision after the expiry of the said period of thirty days, if it is satisfied that the applicant was prevented by sufficient cause from making the application in time.

(2) The Central Government may, on receiving the report from the Board, confirm, vary or reverse the direction made by the Director or may pass such other order as it deems fit, and thereafter the direction made by the Director under rule 21 shall, where necessary, be deemed to have been amended accordingly.

#### CHAPTER VI

##### OFFENCES AND PENALTIES

26. If any owner, agent or manager refused or without lawful excuse (the burden of proving which shall lie upon such owner, agent or manager, as the case may be), neglects:

(a) to furnish in due time any of the notices or returns mentioned in rules 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and 19, or where he furnishes

particulars in such notices or returns which are false and which he either knows or believes to be false or does not believe to be true, or

- (b) to furnish in due time a scheme of development as required by rule 22, or
- (c) to maintain records and preserve cores and samples as required by rules 17, 18 and 19, or
- (d) to comply with any directions issued by the Director under rule 21, or
- (e) to allow the Director or any person authorised by him in this behalf to examine any mineral,

or to draw samples therefrom as provided in rule 23, he shall be punishable with the imprisonment which may extend to six months or with fine which may extend to one thousand rupees or with both.

27. No Court shall take cognizance of any offence punishable under these rules otherwise than on a complaint in writing made by an officer authorised in this behalf by the Central Government.

#### THE SCHEDULE

See Rule 2 (f).

#### FORM A

(See Rule 4)

Notice of the commencement of Prospecting Operations in respect of.....  
.....(name of mineral or minerals).

To

#### IMPORTANT

Notice in this form shall be sent within 30 days of commencement of prospecting operations.

The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources and  
Scientific Research, New Delhi.

Sir,

I have to furnish the following particulars:—

1. Name of the Licensee.
2. Address of the Licensee.
3. Area under licence.
4. Location of the area:—
  - (i) Village.
  - (ii) Post Office.
  - (iii) Police Station.
  - (iv) District.
  - (v) State.
- (vi) Nearest Railway Station or steamer ghat and the distance therefrom.
- (vii) Means of conveyance from the Railway Station or steamer ghat to the prospect.
- (viii) Nearest Dak bungalow or rest house.
5. Date of grant of license.
6. Period of License.
7. Nature of Prospecting Operations conducted or proposed to be conducted.
  - (a) Nature of Drilling.
  - (b) No. and sizes of trial pits or trenches.
- (A brief description of the mineral outcrops may be furnished, if any.)
8. Name and qualifications of the Geologist or Mining Engineer incharge of operations.

Signature .....  
(Full name of the signatory) .....

Designation .....  
and address ..... !....

Date of Despatch .....

## FORM B

(See Rule 5)

Progress report of prospecting work in respect of..... for the calendar year.....  
 (the name of the mineral/s)

## IMPORTANT

This form must be returned duly filled in within 31st January each year and within 30 days after the abandonment of prospecting operations.

Submitted to:—  
 The Director,  
 Indian Bureau of Mines,  
 Ministry of Natural Resources and  
 Scientific Research, New Delhi.

1. Name of the Licensee.
2. Nature of the firm (\*).
3. Address of the firm.
4. Area under license.....(Sq. miles)
5. Location:
  - (i) Village.
  - (ii) Taluq.
  - (iii) District.
  - (iv) State.
6. Date of grant of license.
7. Period of license.
8. Prospecting work done:
  - (a) Pitting.....feet.
  - (b) Trenching.....feet.
  - (c) Drilling.....feet.
9. Nature and structure (\*) of the ore body.
10. Quantity of mineral extracted.
11. Analysis of the ore or minerals.
12. If abandoned:
  - (i) Date of abandonment.
  - (ii) Reasons for abandonment.

Signature .....  
 (Full name of the signatory)  
 Designation .....  
 and address .....  
 Date of Despatch .....

## \*Instructions:

- (1) Under item 2 state clearly whether the firm is private limited or public limited, giving the place of registration or incorporation.
- (2) Under item 9 give a brief description of the geological formations and describe the behaviour of the ore body.

## FORM C

(See Rule 6)

Notice of opening of a mine in respect of.....(mine or minerals).

## IMPORTANT

Notice in this form shall be sent within 30 days of the commencement of mining operation.

To  
 The Director,  
 Indian Bureau of Mines,  
 Ministry of Natural Resources and  
 Scientific Research, New Delhi.

Sir,

I have to furnish the following particulars:—

1. Name of mine and date of opening/reopening.

## 2. Situation of mine:

- (i) Village.
- (ii) Post Office.
- (iii) Police Station.
- (iv) District.
- (v) State.
- (vi) Nearest Railway Station or Steamer ghat and distance therefrom.
- (vii) Means of conveyance from Railway Station or Steamer ghat to mine.
- (viii) Nearest Dak Bungalow or rest house.

## 3. Name and address of the Lessee.

## 4. Date of grant and period of lease (State if the lease is granted under rule 61 of the Mineral Concession Rules, 1949).

## 5. Area of the lease.

## 6. Name and address of previous owner if any and the date of abandonment.

## 7. Name and address of the Agent and date of appointment.

## 8. Name and qualifications of the Geologist or Mining Engineer—incharge of operations.

## 9. Name and address and qualifications of the Manager and the date of appointment.

## 10. (a) No. and sizes of existing workings and their extent.

- (b) Total footage of bore-holes if any.

## 11. Nature of the mineral deposit worked.

Signature .....  
(Full name of the signatory)

Designation .....  
and address .....  
Date of Despatch ..... , , ,

## FORM D.

(See Rule 8)

## Notice of Transfer or Assignment.

## IMPORTANT

Notice in this form shall be sent within 30 days of the transfer or assignment.

To

The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources and  
Scientific Research, New Delhi.

Sir,

I have to furnish the following particulars:

1. Name of mine, concession or lease.
2. Situation:
  - (i) Village.
  - (ii) Post Office.
  - (iii) Police Station.
  - (iv) District.
  - (v) State.
  - (vi) Nearest Railway Station or Steamer ghat and distance therefrom.
  - (vii) Means of conveyance from Railway Station or Steamer ghat to mine.
  - (viii) Nearest Dak Bungalow or rest house.

3. Name and address of the Lessee.
4. Date of grant and period of lease.
5. Area of the lease.
6. Nature of Transfer or Assignment.
7. Name and address of the Transferee or Assignee.

Signature .....  
(Full name of the signatory)

Designation .....

Address .....

Date of Despatch .....

**FORM E**

(See Rule 10)

Notice of the abandonment or discontinuance of mining operation in respect of..... for..... of mine.

(Name of minerals)

To

**IMPORTANT**

Notice in this form shall be sent within one month of the abandonment or within four months of discontinuance of mining operations.

The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources and  
Scientific Research, New Delhi,

Sir,

I have to furnish the following particulars:—

1. Name of mine and the date of opening or re-opening.
2. Situation of the mine:—
  - (i) Village.
  - (ii) Post Office.
  - (iii) Police Station.
  - (iv) District.
  - (v) State.
- (vi) Nearest Railway Station or Steamer ghat and distance therefrom.
3. Name and address of the lessee.
4. Date of grant and period of lease.
5. Area of the lease.
6. Name and address of the Agent.
7. Name, address and qualifications of the Manager.
8. If abandoned:
  - (a) Date of abandonment.
  - (b) Full description of the existing workings accompanied by plans and sections showing all the underground and/or surface workings.
  - (c) Nature and disposition of the ore-body/mineral deposit in relation to existing workings.
  - (d) Reasons for abandonment (give the fullest details).
9. If discontinued,
  - (a) Date of discontinuance.
  - (b) Reasons for discontinuance.
  - (c) Probable date of re-opening.

Signature .....  
(Full name of the signatory)

Designation .....

Address .....

Date of Despatch .....

## FORM F

(See Rule 12)

Notice of re-opening of a mine in respect of.....  
 for.....  
 (Name of mineral).

(Name of Mine)

## IMPORTANT

Notice in this form shall be sent within 30  
 days from the date of re-opening of a mine.

To

The Director,  
 Indian Bureau of Mines,  
 Ministry of Natural Resources and  
 Scientific Research, New Delhi.

Sir,

I have to furnish the following particulars:—

1. Name of mine and date of first opening.
2. Situation of the mine:
  - (i) Village.
  - (ii) Post Office.
  - (iii) Police Station.
  - (iv) District.
  - (v) State.
- (vi) Nearest railway station or steamer ghat and distance therefrom.
3. Name and address of the lessee.
4. Date of grant of the lease.
5. Area of the lease.
6. Name and address of the previous owner if any and the date on which he abandoned.
7. Name and address of the agent.
8. Name, and address and qualifications of the manager.
9. Date on which it was abandoned or discontinued prior to re-opening.
10. Date of re-opening.
11. No. and sizes of existing workings and their extent.

Signature .....

(Full name of the signatory)

Designation .....

Address .....

Date of Despatch .....

## FORM G

(See Rule 13)

Notice of commencement of stoping in respect of  
 .....(mineral or minerals).

To

The Director,  
 Indian Bureau of Mines,  
 Ministry of Natural Resources and  
 Scientific Research, New Delhi.

## IMPORTANT

Notice in this form shall be sent 30 days before  
 the commencement of stoping operations.

Sir,

I have to furnish the following particulars:—

1. Name of mine.
2. Situation of mine:
  - (i) Village.
  - (ii) Post Office.
  - (iii) Police Station.
  - (iv) District.
  - (v) State.

(vi) Nearest railway station or steamer ghat and distance therefrom.  
 (vii) Means of conveyance from railway station or steamer ghat to mine.  
 (viii) Nearest dak bungalow or rest house.

3. Name and address of the owner.  
 4. Name and address of agent.  
 5. Name, address and qualifications of manager.  
 6. Name and qualifications of the geologist or mining engineer incharge of operations.  
 7. Date of grant and period of lease.  
 8. Area of the lease.  
 9. No. of shafts and their depth.  
 10. No. of levels and their extent.  
 11. Total footage of underground development.  
 12. Thickness of mineral vein or ore body developed.  
 13. No. and sizes of blocks of ore body ready for stoping and their levels.  
 14. Approximate tonnage of ore blocked out.  
 15. Level or levels at which stoping is contemplated.  
 16. Method of stoping contemplated.  
 17. The rate of progress in stoping contemplated.  
 18. Date on which it is proposed to commence stoping.

Signature .....  
 (Full name of the signatory)  
 Designation .....  
 Address .....  
 Date of Despatch .....

## FORM H

[See Rule 14 (a)]

**IMPORTANT**  
 This form must be returned before  
 the 1st March, each year duly filled in.

for all minerals except coal, manganese ore, ilmenite, chromite, mica, gold and precious metals, copper, iron ore, lead and zinc, and precious and semi-precious stones.

Annual Return in respect of.....  
 (for the year 19 ).

Submitted to:

The Director,  
 Indian Bureau of Mines,  
 Ministry of Natural Resources and  
 Scientific Research, New Delhi.

1. Name of the Mine .....  
 2. Location:  
   1. Village ..... Post Office.....  
   2. District ..... Taluk or Thana.....  
   3. Division ..... State .....

3. Name and address of the individual, Firm or Company.

## PRODUCTION

1. Stocks of Ore/mineral at the beginning of the year.....  
 2. Ore/mineral raised during the year.....  
   (a) Underground workings .....

3. Average grade/analysis of the mineral.

4. Ore/mineral treated.....  
 Concentrates obtained (gradewise) .....

5. Amount disposed of during the year.....  
 6. Closing stocks at the end of the year.....

## 7. Values per ton:

(a) Pit-head ..... Rupees.

(b) f.o.r. (State Railway Station) .....

(c) f.o.b. (State Port) .....

....

Signature .....

(Full name of the signatory) .....

Designation .....

Address .....

Date of Despatch .....

## FORM I

[ See Rule 14(b) ]

Quarterly Return in respect of MANGANESE ORE for the quarter ending.....19

## IMPORTANT

This Form must be returned  
within 30 days after the expiry of  
each quarter, duly filled in.

Submitted to :

The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources  
and Scientific Research, New Delhi.

(1) Name of the Mines.

(2) Location :

Village .....

Post office .....

District .....

Taluk or Thana .....

Division .....

State .....

(3) Name and Address of the Individual, Firm or Company operating

## Mining

(i) Stocks of Ore at the beginning of the quarter.....Tons.

(ii) Ore raised during the quarter :

(a) Underground workings ..... Tons

(b) Opencast workings ..... Tons

Total of (i) and (ii) ..... Tons

(iii) Ore treated or despatched

..... Tons

(iv) Stock of Ore at the end of the quarter.

..... Tons

## Grades of Ores

(i) High Grade ore above 45% Mn. ..... Tons Mn. content..... %

(a) Battery Grade ..... Tons Mn. content..... %

(b) Other Grades ..... Tons Mn. content..... %

(ii) Low Grade ore below 45% Mn. ..... Tons Mn. content..... %

(iii) Value for Ton :

(a) Pit head ..... Rupees

(b) f.o.r. (State Rly. Station) ..... Rupees

(c) f. o. b. (State Port). ..... Rupees

## Ore Dressing.

(i) Ore treated ..... Tons.

Mn. content..... %

(ii) Grade of ore treated ..... Tons.

Mn. content..... %

(iii) Ore recovered ..... Tons.

Mn. content..... %

(iv) Grade of ore recovered ..... Tons.

Signature .....

(Full name of the signatory) .....

Designation .....

Date of Despatch .....

## FORM J

[See Rule 14 (b)]

Quarterly return in respect of CHROMITE for the quarter ending.....19

<b>IMPORTANT</b>		Submitted to :
<p>This form must be returned within 30 days after the expiry of each quarter, duly filled in.</p>		<p>The Director, Indian Bureau of Mines, Ministry of Natural Resources and Scientific Research, New Delhi.</p>
<p>(1) Name of the Mines.</p>		
<p>(2) Location :</p> <p>Village ..... District ..... Division .....</p>		<p>Post Office ..... Taluk or Thana ..... State .....</p>
<p>(3) Name and address of the individual, Firm or Company operating.</p>		
<p><i>Mining:</i></p> <p>(i) Stocks at the beginning of the quarter ..... Tons.      (ii) Ore raised during the quarter:          (a) Underground working ..... Tons.          (b) Opencast working ..... Tons.          Total of (i) and (ii) ..... Tons.      (iii) Ore treated or despatched ..... Tons.      (iv) Stocks of ore at the end of the quarter ..... Tons.</p>		
<p><i>Grade of Ore :</i></p> <p>(i) High grade ore ..... Cr<sub>2</sub>O<sub>3</sub> content ..... % Cr : Fe. ratio .....      (ii) Low grade ore ..... Cr<sub>2</sub>O<sub>3</sub> content ..... % Cr : Fe. ratio .....      (iii) Value per ton :—          (a) Pit head ..... Rupees          (b) f. o. r. (State Ry. Stn.) ..... Rupees          (c) f. o. b. (State port) ..... Rupees</p>		
<p><i>Ore Dressing :</i></p> <p>(i) Ore treated ..... Tons.      (ii) Grade of Ore treated ..... Cr<sub>2</sub>O<sub>3</sub> content ..... %      (iii) Ore recovered ..... Tons.      (iv) Grade of ore recovered ..... Cr<sub>2</sub>O<sub>3</sub> content ..... %</p>		
<p>Signature ..... (Full name of the Signatory)</p>		
<p>Designation..... Date of Despatch.....</p>		

## FORM K

[See Rule 14(b)]

Quarterly return in respect of MICA for the quarter ending.....195

<b>IMPORTANT</b>		Submitted to :
<p>This form must be returned within 30 days after the expiry of each quarter, duly filled in.</p>		<p>The Director, Indian Bureau of Mines, Ministry of Natural Resources and Scientific, Research, New Delhi.</p>
<p>(1) Name of the Mines.</p>		
<p>(2) Location :</p> <p>Village ..... District ..... Division .....</p>		<p>Post Office ..... Taluk or Thana ..... State .....</p>
<p>(3) Name and address of the individual, Firm or Company operating.</p>		
<p>(4) (i) Proprietor's Certificate No. ....          (ii) Miner's Licence No. ....          (iii) Dealer's Licence No. ....          (iv) Proprietor's Permit No. ....</p>		

## CRUDE, S.D.B. AND CHILLAS

Serial No. f	Name of Mine/s	*Opening Stock			Production				*Issues		*Closing stock			
		Crude	'SDB'	Chillas	Crude	SDB		Total Crude	Total SDB	Crude issue for dressing	Receipts after dressing	Crude	SDB	Chillas
						Mine dump	Factory dump				SDB Chillas			

Signature .....

(Name in full of the signatory)

Designation .....

Date of Despatch .....

\*Total stock or issue from *all* mines are to be shown.

## FORM L

[See Rule 14(b)]

Quarterly return in respect of IRON ORE for the quarter ending.....195

## IMPORTANT

This form must be returned within 30 days before the expiry of each quarter, duly filled in.

Submitted to :  
The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources and  
Scientific Research, New Delhi.

(1) Name of the Mine.

(2) Location :

Village .....  
District .....  
Division .....

Post Office .....  
Taluk or Thana .....  
State .....

(3) Name and address of the individual,  
Firm or Company operating.

## Mining.

(i) Stocks of ore at the beginning of the quarter.

(ii) Ore raised during the quarter.

(a) Underground workings..... Tons.

(b) Open-cast workings..... Tons.

Total of (i) and (ii)..... Tons.

(iii) Ore treated or despatched..... Tons. Iron content..... Tons.

(iv) Stocks of ore at the end of the quarter. .... Tons

(v) Value per ton :

(a) Pit head ..... Rupees.

(b) f. o. r. (State Rly. Station) ..... Rupees.

(c) f. o. b. (State Port) ..... Rupees.

(vi) Analysis of Ore ..... Tons.

Signature.....  
(Full name of the signatory)

Designation .....

Date of Despatch.....

## FORM M

[See Rule 14 (b)]

Quarterly return in respect of ILMINITE for the quarter ending.....19

## IMPORTANT

This form is to be returned within 30 days after the expiry of each quarter duly filled in.

Submitted to :  
The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources and  
Scientific Research, New Delhi.

(1) Name of the Mine.

(2) Location :

Village .....  
District .....  
Division .....

Post Office .....  
Taluk or Thana .....  
State .....

(3) Name and address of the individual,  
Firm or Company operating.

## Mining :

(i) Stocks of ore (beach sand) at the  
beginning of the quarter. .... Tons.

(ii) Ore (beach sand) raised during the quarter.	.....	Tons.
(iii) Ore (beach sand) treated.	.....	Tons.
(iv) Stocks of ore at the end of the quarter	.....	Tons.

*Grades or Ore recovered from the ore (beach sand) Treated.*

(a) Ore above 55% $TiO_2$	.....	Tons.
(b) Ore above 40% but less than 55% $TiO_2$	.....	Tons.
(c) Ore below 40% $TiO_2$	.....	Tons.

*Value per Ton:*

(a) Pit head	.....	Rupees	% of $TiO_2$ .
(b) f. o. r. (State Rly. Station)	.....	Rupees	
(c) f. o. b. (State Port)	.....	Rupees	

*By Products:*

(i) Rutile	.....	Tons.	$TiO_2$ content....%
(ii) Silimanite	.....	Tons.	$Al_2O_3$ content....%
(iii) Garnet	.....	Tons.	
(iv) Others	.....	Tons.	

Signature .....

(Full name of the signatory)

Designation .....

Date of Despatch .....

## FORM N

[See Rule 14 (b)]

Quarterly return in respect of COPPER ORE for the Calendar year 19

## IMPORTANT

This form must be returned within 30 days after the expiry of each quarter, duly filled in.

## Submitted to :

The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources and  
Scientific Research, New Delhi.

(1) Name of the Mine.

(2) Location :

Village .....

District .....

Division .....

Post Office .....

Taluk or Thana .....

State .....

(3) Name and address of the individual,  
Firm or Company operating.

## Mining:

(i) Stocks of ore at beginning of the quarter .....

..... Tons

(ii) Ore raised during the quarter :

(a) Underground workings .....

..... Tons.

(b) Open cast workings .....

..... Tons.

Total of (i) and (ii) .....

..... Tons.

(iii) Ore milled/despatched .....

..... Tons.

(iv) Stocks of ore at the end of the quarter .....

..... Tons.

(v) Nature of the ore (Analysis) .....

..... Tons.

(vi) Value per ton :

(a) Pit head .....

..... Rupees.

(b) f. o. r. (State Rly. Station) .....

..... Rupees.

(c) f. o. b. (State Port) .....

..... Rupees.

## SMELTER REPORTS

(i)

Ore Concentrated/ treated tons	Copper con- cent Tons	COPPER			RECOVERIES					
		Matte Tons	Blistor Tons	Fire refined copper Tons	Gold Ozs	Value Rs.	Silver Ozs	Value Rs.	Other Metals Lbs. Value	Sulphuric acid Tons Values

(ii)

Copper used for alloying	Metals imported for alloying with copper				Alloys produced			
	Tons	Value Rs.	Description	Tons	Value Rs.	Description	Tons	Value Rs.

Signature .....

(Full name of the Signatory)

Designation .....

of Despatch .....

## FORM O

[(See Rule 14 (b))]

Quarterly return in respect of LEAD AND ZINC ORES for the quarter ending....19

<b>IMPORTANT</b>
This form must be returned within 30 days after the expiry of each quarter duly filled in.

Submitted to :—  
 The Director, Indian Bureau of Mines,  
 Ministry of Natural Resources and Scientific  
 Research, NEW DELHI.

(1) Name of Mine.

(2) Location :—

Village .....  
 District .....  
 Division .....

Post Office .....  
 Taluk or Thana .....  
 State .....

(3) Name and address of the individual,  
 Firm or Company operating.*Mining :*

(i) Stocks of ore at beginning of the quarter . . . tons  
 (ii) Ore raised during the quarter tons  
   (a) Underground workings . . tons  
   (b) Open-cast workings . . tons  
   Total of (a) and (b) . . tons  
 (iii) Ore treated or despatched . tons  
 (iv) Stocks of ore at the end of the quarter. . . tons  
 (v) Value per ton.—  
   (a) Pit head . . . . Rupees  
   (b) f. o. r. (State Rly. Stn.) . . Rupees  
   (c) f. o. b. (State Port) . . . Rupees  
 (vi) Analysis of Ore.

*Ore Milled :*

\*1. Concentrates recovered . . tons  
 Metal content . . tons  
 2. Concentrates exported . . tons  
 Metal content . . tons  
 3. Destination of exports . . tons  
 Value . . . . Rupees  
 4. Freight to destination (per ton) Rupees.

\*In case lead and zinc concentrates are treated in India this table may be filled in

## Lead and Zinc—(Contd.)

SMELTER REPORT  
LEAD

Lead						Recoveries								
Pig			Refined		Pigments		Silver		Other Metals		Sulphuric Acid			
Tons	Value	Rs.	Tons	Value	Rs.	Tons	Value	Rs.	Lbs.	Value	Rs.	Tons	Value	Rs.

## ZINC

Zinc						Recoveries					
Distilled		Electrolytic		Oxide		Metals			Sulphuric Acid		
Tons	Value	Rs.	Tons	Value	Rs.	Tons	Value	Rs.	Tons	Value	Rs.

Signature .....

(Full name of the signatory)

Designation .....

Date of Despatch .....

## FORM P

[See Rule 14 (b)]

Quarterly return in respect of GOLD AND PRECIOUS METALS for the quarter ending.....19

## IMPORTANT

This form must be returned within 30 days after the expiry of each quarter duly filled in.

Submitted to :—

The Director, Indian Bureau of Mines,  
Ministry of Natural Resources and Scientific  
Research, New Delhi.

(1) Name of the Mines

(2) Location :—

Village .....

Post Office .....

District .....

Taluk or Thana .....

Division .....

State .....

(3) Name and address of the individual, Firm or Company operating

## Mining :

(i) Stocks of Ore at the beginning of the quarter ..... Tons

(ii) Ore raised during the quarter —

(a) Under ground workings ..... Tons

(b) Opencast workings ..... Tons

(iii) Gold content of the Ore ..... cwts. per ton.

(iv) Ore milled ..... Tons

(v) Stocks of Ore at the end of the quarter ..... Tons

## Mining :

(a) Ore Milled ..... Tons

(b) Material sorted to waste ..... Tons

(c) Ore concentrated, cyanided etc. ..... Tons

(d) Gold concentrates produced ..... Tons

(e) Estimated gold content ..... Tons

(f) Old tailings treated ..... Tons

(g) Bullion recovered by—

(i) Cyanidation ..... crude ozs.

(ii) Amalgamation ..... crude ozs.

(iii) Other metals recovered ..... ozs.

## Bullion Produced :—

(i) Gold ..... fine ozs.

Value ..... Rupees

(ii) Silver ..... fine ozs.

Value ..... Rupees

Signature.....

(Full name of the Signatory)

Designation.....

Date of Despatch .....

## \*INSTRUCTIONS.

Under item "Bullion produced" basis of calculating the value may be furnished.

## FORM Q

[See Rule 14 (b)]

Quarterly return in respect of PRECIOUS AND SEMI-PRECIOUS STONES for the quarter ending.....19

## IMPORTANT

This form must be returned within 30 days after the expiry of each quarter duly filled in.

Submitted to :—

The Director, Indian Bureau of Mines,  
Ministry of Natural Resources and Scientific  
Research, New Delhi.

(1) Name of the Mines.

(2) Location :—

Village .....

Post Office.....

District .....

Taluk or Thana .....

Division .....

State .....

(3) Name and address of the individual, Firm or Company Operating.

## Mining :

(i) Stock at beginning of the quarter—

(a) Rough ..... Tolas

Value ..... Rupees

(b) Cut ..... Tolas

Value ..... Rupees

(ii) Stocks raised during the quarter—

(a) Underground workings ..... Tolas

Value ..... Rupees

(b) Opencast workings ..... Tolas

Value ..... Rupees

Total of (i) and (ii) ..... Tolas

(iii) Stock used during the year for cutting. .... Tolas

Value ..... Rupees

(iv) Closing stocks at the end of the quarter. .... Tolas

Value ..... Rupees

(a) Rough ..... Tolas

Value ..... Rupees

(b) Cut ..... Tolas

Value ..... Rupees

## CUTTING OR DRESSING REPORT

(State whether data are given in Tolas and ratis or in metric carats equivalent to 0.2 grams.)

Type of Material	Weight of rough stones	Weight of cut gems	Value Rs.	Balance rough stones

Signature.....

(Full name of the Signatory)

Designation .....

Date of Despatch.....

## FORM R

(See Rule 16)

Notice of sinking shafts and new bore holes in respect  
of.....(mineral or minerals)

To

## IMPORTANT

Notice in this form shall be sent 30 days before  
the commencement of sinking shaft or bore-  
holes.

The Director,  
Indian Bureau of Mines,  
Ministry of Natural Resources and  
Scientific Research, New Delhi

Sir,

I have to furnish the following particulars:—

1. Name and address of licensee/lessee.
2. Situation of the area:
  - (i) Village.
  - (ii) Post Office.
  - (iii) Police Station.
  - (iv) District.
  - (v) State.
  - (vi) Nearest railway station or steamer ghat and distance therefrom.
  - (vii) Means of conveyance from railway station or steamer ghat to mine.
  - (viii) Nearest dak bungalow or rest house.
3. Area of the licence/lease.
4. Date of grant and period of licence/lease. (State if the lease is granted under Rule 61 of Mineral Concession Rule, 1949).
5. Name of mine if any.
6. Depth and dimensions of the existing shaft or bore hole, if any, giving reference to plan.
7. Whether any notice in respect of any of the shafts or bore holes was already given; give reference to plan.
8. Attach plan on a scale 1 to 330 indicating the precise location of the shafts or bore holes existing and intended to be sunk or extended.
9. Purpose for which each of the shafts or bore holes is intended to be put or extended.
10. Type of new shaft and its/their dimensions contemplated.
11. Type of drill used and size of core to be obtained.
12. Mineral or minerals encountered.
13. If the shaft or bore hole commences from underground the depth of the level at which the shaft or bore hole is put.
14. Name and address of agent.
15. Name and address of manager.
16. Name, address of the driller, incharge of boring operation.
17. Name and qualifications of the geologist or mining engineer incharge of operations.
18. Date on which it is proposed the start sinking operations.

Signature .....

(Full name of the signatory)

Designation and address.....

Date of Despatch .....

## FORM S

(See Rule 17)

Particulars to be furnished in the Journals.

(i) Full description of the site where a shaft or bore hole issue:  
Thana Taluk.  
Post Office.  
Nearest Railway Station.  
State and District.

(ii) Full details including the shape and dimensions of shaft or borehole.

(iii) Daily progress of work, detailing feet drilled or sunk and the length of core recovered and serial number of samples of core or fragments of rock preserved.

(iv) Description of the soil or rock encountered in sinking the shaft or bore-hole.

(v) Depths at which any mineral is struck and the thickness and disposition of such vein, mineral zone or seam.

(vi) Results of analyses of samples, if carried out.

(viii) Special features, if any, which were met during the operation (e.g. joints, faults, seepage of water etc.)

(viii) Date of commencement of the operations.

(ix) Date of completion or abandonment of the work.

(x) If abandoned, the reasons for such abandonment.

(xi) The total depth sunk.

(xii) Cost per foot of sinking the bore-hole or shaft.

[No. MII-185(1)/55.]

K. N. KAUL, Jt. Secy.